

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/960,292	09/24/2001	Fabrice Lecomte	612.40667X00		
20737	o7/09/2003 TTERRY, STOUT & 1	KRAUS, LLP	EXAMINER		
1300 NORTH S SUITE 1800	SEVENTEENTH STREE	MANOHARAN, VIRGINIA			
ARLINGTON,	VA 22209-9889	•	ART UNIT	PAPER NUMBER	
			1564		

DATE MAILED: 07/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	_					· thr			
			Application	No.	Applicant(s)				
			09/960,292		LECOMTE ET AL				
	Office Action Summary		Examiner		Art Unit				
			Virginia Ma	noharan	1764				
	- The MAILING DATE of this commun	nication	appears on the	cover sheet w	th the correspondence ad	Idress			
Period fo	<b>r Keply</b> Ortened Statutory Period F	OD DE	DI V IS SET TO	EXPIRE 3 M	ONTH(S) FROM				
THE N - Exten after: - If the - If NO - Failur - Apy n	MAILING DATE OF THIS COMMUN isions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty (period for reply is specified above, the maximum set to reply within the set or extended period for repleply received by the Office later than three months dipatent term adjustment. See 37 CFR 1.704(b).	IICATIC s of 37 CFI munication 30) days, a statutory pe	DN. R 1.136(a). In no even a reply within the statute riod will apply and will	t, however, may a r ory minimum of thir expire SIX (6) MON sation to become Al	eply be timely filed  ty (30) days will be considered time  ITHS from the mailing date of this of  3ANDONED (35 U.S.C. § 133).	ly. ommunication.			
1)🖂	Responsive to communication(s) f	iled on	<u>12-21-01</u> .						
2a) <u></u>	This action is FINAL.		This action is r						
3) 🗌	Since this application is in conditional closed in accordance with the practice.	on for al ctice un	lowance except der <i>Ex parte Qu</i>	for formal ma layle, 1935 C.	tters, prosecution as to to to to 1. 11, 453 O.G. 213.	he merits is			
•	on of Claims	analic	ation						
	Claim(s) <u>1-16</u> is/are pending in the			sideration					
	4a) Of the above claim(s) is/	ale Will	IUI AWII II OIII COII	Sideration.					
,	Claim(s) is/are allowed.								
,	6) Claim(s) <u>1-16</u> is/are rejected.								
	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
	ion Papers	iction a	110/01 01000001110	.quii oiri oiri					
• •	The specification is objected to by t	he Exar	miner.						
	The drawing(s) filed on is/are			objected to by	the Examiner.				
	Applicant may not request that any o	bjection	to the drawing(s)	be held in abey	vance. See 37 CFR 1.85(a)				
11)	The proposed drawing correction fil	ed on _	is: a)∐ aŗ	proved b)	disapproved by the Exami	ner.			
,	If approved, corrected drawings are i								
12)	The oath or declaration is objected	to by th	e Examiner.						
Priority	under 35 U.S.C. §§ 119 and 120					·			
13)	Acknowledgment is made of a clai	m for fo	reign priority un	der 35 U.S.C	§ 119(a)-(d) or (f).				
	☐ All b)☐ Some * c)☐ None of								
	1. Certified copies of the priori	ty docur	ments have bee	n received.					
	2. Certified copies of the priority documents have been received in Application No								
*	<ol> <li>Copies of the certified copie application from the Inte See the attached detailed Office act</li> </ol>	ernation	al Bureau (PCT	Rule 17.2(a))		al Stage			
	Acknowledgment is made of a claim					al application).			
	a)   The translation of the foreign I								
15)	Acknowledgment is made of a claim	n for do	mestic priority u	nder 35 U.S.0	C. §§ 120 and/or 121.				
Attachme				4) Interview	w Summary (PTO-413) Paper N	lo(s)			
2) Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review rmation Disclosure Statement(s) (PTO-1449	(PTO-94 ) Paper N	18) lo(s) <u>6</u> .	5) Notice of Other:	of Informal Patent Application (F	PTO-152)			
L	T								

Application/Control Number: 09/960,292

Art Unit: 1764

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

The abstract of the disclosure is objected to because of the inclusion of legal phraseology often used in patent claims such as "comprising" recited in line 2. Correction is required. See MPEP § 608.01(b).

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors e.g., typographical, grammar, idiomatic, syntax and etc. Applicants' cooperations are requested in correcting any errors of which applicants may become aware in the specification.

The disclosure is objected to because of the following informalities: Note typographical errors 1) "vapour", recited e.g., in claim 9, last line, should be -- vapor -- as the latter is the term normally used in the U.S; and "us sed" in claim 14, line 2.

Appropriate correction is required.

Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- a. There are no proper antecedent basis for supports in the claims for the following recitations:
- 1. "the liquid recycled to state b) recited in claim 7 (that the liquid is recycled to stage b is not initially recited in the base claim 1);
  - 2. "stage d)" in claims 5 and 8;

Application/Control Number: 09/960,292

Art Unit: 1764

3. "the heat of the liquid phase obtained in stage b)" in claim 10; and

- 4. "the energy recovered from the expander" in claim 5.
- b. The phrase "gas phase" should be vaporous phase if the material is liquid at normal conditions.
- c. The inconsistent used of terminology in the claims is improper. For example: "gas phases" in claim 5, line 2 which is plural as opposed to "gas phase" in claim 1, stage c) which is singular. See also the gas phases recited in claim 8, line 1.
- d. Claim 1 recites only up to stage c). Claim 9, however, dependent on claim 1, jumps to stage f).
- e. In claim 14, line 1, "a distillation column" should be the distillation columnsince claim 1 already recites "a distillation column" in line 5.
- f. It is unclear whether the "a gas phase" in claim 7 is the same or different e.g., from "a gas phase" recited in claim 1, last two lines.
- g. The claims or at least part of the claims do not recite positive, explicit, physical, process steps but recite passive terms which makes the actual steps vague and indefinite. Note e.g., the recitation in claim1 of" the natural gas is cooled to produce ..."

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 8-11 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bacon (4,128,410 )or Tomlinson et al (4,846,863).

Page 4

Application/Control Number: 09/960,292

Art Unit: 1764

Either Bacon or Tomlinson discloses the a process for treating a gas comprising

- a) the natural gas is cooled to produce a liquid phase and a gas phase,
- b) the gas phase obtained in stage a) is contacted in a distillation column with a liquid phase obtained in stage c) to produce a gas phase and a liquid phase,
- c) the gas phase obtained in stage b) is cooled to produce a liquid phase and a gas phase as broadly claimed in claim 1

See e.g., cols. 3-12 of Bacon and the claims at cols 9-10 of Tomlinson et al. The process of Bacon or Tomlinson differs from the claimed invention in that the preamble of claim 1 for example, recites "pretreating a natural gas under pressure containing hydrocarbons, at least one of the acid compounds hydrogen sulfide and carbon dioxide, and water".

However, this difference does not constitute a patentable distinction inasmuch as the preamble may or may not even be given patentable weight. Also, by now it is well -settled that the material may be new or unobvious but it does not impart patentability o the process of Bacon or Tomlinson. See In re Durden et al 226 USPQ 359.

Claims 6-7 and 12-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Strum discloses a process for separating methane in a natural gas.
- b. Lee et al discloses an enhanced NGL recovery process.
- c. Streich discloses a process for the fractionation of natural gas

Application/Control Number: 09/960,292

Art Unit: 1764

- d. Bucklin discloses a method for treating hydrocarbon gases for condensate recovery.
  - E. Ueno et al discloses a gas liquefying method.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Virginia Manoharan whose telephone number is 703-308-3844. The examiner can normally be reached on Tuesday-Friday from 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 703-308-4311. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9462 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

V. Manoharan/mn July 4, 2003

PRIMARY EXAMINED
ARTUMIT 12 17004

7/4/03